Lockheed Martin, convergent partner with Princeton Power Systems for high-reliability energy Storage in Maine

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Princeton Power Systems, a leading global designer and manufacturer of technology products and embedded software for energy storage, microgrid operations, and electric vehicle charging, provided their latest generation of 100 kW grid-tied inverters to a Lockheed Martin 3 MWh energy storage system launched by Convergent Energy project in Boothbay, Maine.

Prior to the commissioning of the project, the Boothbay regional transmission lines were targeted for a significant and costly upgrade to connect to Maine's broader electricity grid. While the new interconnection would have greatly improved the reliability of the existing electrical infrastructure, the residents of Boothbay would have been required to pay electric rates five times higher than their current bill. Convergent Energy + Power teamed up with Lockheed Martin to step in and provide an innovative solution, leveraging advanced power converters, energy storage, and controls, including Princeton Power Systems' newest generation of 100 kW grid-tied inverters.

Princeton Power Systems' GTIB-100 G1.2 was chosen for its proven high-reliability and energy storage integration features, given the remote location of the Boothbay region. The inverter is the world's first UL-1741 safety standards certified commercial scale microgrid converter. The technology is a 3-phase 100 kW four-quadrant converter with the same advanced microgrid functions as its predecessor, the GTIB-100. It is designed for advanced batteries, solar, on-grid, and off-grid applications. The company has deployed 60 MW worth of GTIB systems to its customers.

"By incorporating the technology and expertise provided by the four companies, Princeton Power's technology is a great component of the energy storagesolution to provide reliable electricity at a lower cost in the Boothbay Area," explained Darren Hammell, Co-Founder and Chief Strategy Officer at Princeton Power Systems.

"Lockheed Martin offers fully integrated energy storage solutions using components from top quality suppliers, such as Princeton Power," said Frank Armijo, vice president of Lockheed Martin Energy. "The Boothbay project is an excellent example of our total-solution approach."

The 3 MWh system has been commissioned for the purpose of alleviating peak summer power reliability issues in the Boothbay area. Since then, the reliableenergy storage technology has improved the power grid by making it more affordable for businesses and residents in the local area and deferring the need for costly transmission line upgrades.

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